MARK SCHEME for the October/November 2006 question paper

MMM. Hiremepapers.com

0445 DESIGN AND TECHNOLOGY

0445/02

Paper 2, maximum raw mark 60

This mark scheme is published as an aid to teachers and students, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began.

All Examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

Mark schemes must be read in conjunction with the question papers and the report on the examination.

The grade thresholds for various grades are published in the report on the examination for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses.

• CIE will not enter into discussions or correspondence in connection with these mark schemes.

CIE is publishing the mark schemes for the October/November 2006 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.



UNIVERSITY of CAMBRIDGE International Examinations

	Page 2			Mark Scheme	Syllabus	Paper	
				IGCSE - OCT/NOV 2006		0445	2
1.	(a)	R40 Cen R20 R20 R60 R60	centr	re	Breakdown of marks 2 1 1 1 1 1 1	Marks on script 10	
		<i>Semi ellipse</i> construction (3) orie line quality (1)		ion (3) orientation (1)	3+1+1	5	
	(b)	(i)	Hex conc	80 side 60 side entric alignment ion above peak	2 2 1 1	6	
		(ii)	spac	elines for letters (2x1) ing (0-2) ble size (0-2)	2 2 2	6	
	(c)	suitable cross halving cut or slot and tab (0-2) two length positions			2 1	<u>3</u> 30	
2.	(a)	division by construction verticals 85 spacing +/-1mm (1)		•	2 1	3	
	(b)	(i)	Ø26 Shou	90 (1) + R17 (1) circle (2) body (1) Ø12 circle (2) ulder curve (1) arm (2) angle(1) ring wheel (2) shaft (1) angle (1)	2 5 4 4	15	
		(ii)	posit	ion (1) spacing (1)	2	2	
	(c)	(i)		ble chart/graph for types (0-2) represented correctly (0-2)	4	4	
		(ii)		ble chart/graph for rent periods (0-2) represented correctly (0-2)	4	4	
	(d)	tab	(0-2) ទ	slot (1)	2	<u>2</u>	

	Page 3			Mark Sc	Syllabus	Paper	
				IGCSE - OCT/	0445	2	
3.	(a)	(i)		nt 140	1		
				0 long	1		
			top 10 deep side panel 80 wide		1		
					1		
				panel R20	1		
				m 10 deep	1		
				position (2x1)	2		
				on lines on top	1		
				on lines on bottom	1	10	
		section lines on rod (2x1)		on lines on rod (2x1)	2	12	
		(ii) widtl		n 60	1		
		• •		ebates in top (2x1)	2		
				ebates in bottom (2x1)	2		
				thickness	1		
			rod p	osition	1		
			rod t	hickness	1	8	
		(:::)	SO 6	i0 (1+1)	2		
		(111)		circle	1		
				inside circle	1		
				to left of top	1		
				en detail of rods in sides (2x1)	2		
				panel showing beyond top	1	8	
	(b)	mat	ch to i	projection	1		
	• •	correct symbol			1	2	
						30	
	(-)		I.L C	alastaking (0,0)	0		
4.	(a)			sketching (0-2)	2	4	
				representing the company (0-2)	2	4	
	(b)	rem	aining	sides drawn accurately (6x1)	6		
	. ,			p 43 +/- 2mm (0-2)	2		
				(4x1)	4		
			flaps		4	16	
	(c)	pos	ition fo	or logo on correct face	1		
	(0)			iew correct orientation	1		
				ate size to fit space	1	3	
	(d)	corr	oct lo	cation/workable solution(1-2)	2		
	(d)	two part joint (1-2)			2	4	
				ארע ד-2 א	۷.	4	
	(e)	qua	lity of	rendering(1-3)	3	3	
	. ,		-			30	